

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): A method for analysing a cell sample for cell surface-bound or intracellularly bound analytes, which method comprises the steps of:

- (i) providing a solid support having on a surface thereof a plurality of different binding agents immobilized at defined positions on the surface, wherein each binding agent comprises one member of a specific binding pair;
- (ii) contacting the solid support surface with a set of different ligands each at a known concentration, each ligand comprising a first part capable of specifically binding to a specific analyte selected from cell surface-bound analytes and intracellularly bound analytes of a defined cell type, and a second part which comprises the other member of each specific binding pair, such that each ligand binds through its specific binding pair part to a specific position on the solid support surface;
- (iii) determining the amount of binding of each ligand to the solid support surface;
- (iv) incubating a cell sample-containing fluid, which contains cell fragments and intact cells, the membranes of the intact cells having been made permeable to ligands, with a set of ligands identical to that in step (ii), each ligand at the

same concentration as in step (ii), to permit the ligands to bind to cell surface-bound or intracellularly bound analytes ~~of cells present in the cell sample fluid~~;

- (v) contacting the cell sample fluid with a solid support surface according to step (i) to permit ligands that have not bound to cell surface-bound or intracellularly bound analytes to bind to the solid support surface; and
- (vi) determining the amount of binding of each ligand to the solid support surface obtained in step (v) and comparing that binding amount with the amount of binding of the same ligand obtained in step (iii), reduced binding in step (v) indicating the presence of ligand-specific cell surface-bound ~~analytes or~~ intracellularly bound analytes in the cell sample.

Claim 2 (currently amended): The method according to claim 1, wherein the same solid support surface ~~obtained in step (ii)~~ is regenerated ~~to provide the solid support surface used after step (iii)~~, and is reused in step (v).

Claim 3 (currently amended): The method according to claim 1, wherein cells and cell fragments, including those with bound ligands, are removed from the cell sample fluid before contacting the incubated cell sample fluid with the solid support surface in step (v).

Claim 4 (original): The method according to claim 3, wherein the cells and fragments

are removed by filtration or centrifugation.

Claim 5 (cancelled)

Claim 6 (original): The method according to claim 1, wherein steps (v) and (vi) are repeated with at least one different cell concentration of the cell sample-containing fluid, and that quantitative measures of cell surface-bound analytes or intracellularly bound analytes are determined.

Claim 7 (original): The method according to claim 1, wherein steps (v) and (vi) are repeated with at least one different ligand concentration, and that quantitative measures of cell surface-bound analytes or intracellularly bound analytes are determined.

Claims 8-9 (cancelled)

Claim 10 (original): The method according to claim 1, wherein binding to the solid support surface is detected by a label-free detection method.

Claim 11 (original): The method according to claim 10, wherein the detection method is based on mass-sensing.

Claim 12 (original): The method according to claim 11, wherein the mass sensing comprises evanescent wave sensing.

Claim 13 (original): The method according to claim 1, wherein the solid support surface is provided in at least one flow cell.

Claim 14 (withdrawn): A method for analysing a cell sample for cell surface-bound or intracellularly bound analytes, which method comprises the steps of:

- (i) providing a solid support having on a surface thereof a plurality of different binding agents immobilized at defined positions on the surface, wherein each binding agent comprises one member of a specific binding pair;
- (ii) contacting the solid support surface with a set of different ligands, each ligand comprising a first part capable of specifically binding to a specific analyte selected from cell surface-bound analytes and intracellularly bound analytes of a defined cell type, and a second part which comprises the other member of each specific binding pair, such that each ligand binds through its specific binding pair part to a specific position on the solid support surface;
- (iii) contacting a cell sample-containing fluid with the solid support surface resulting from step (ii) having the ligands bound thereto to permit cells or cell fragments in the sample to bind to ligands on the solid support surface through cell surface-bound or intracellularly bound analytes; and
- (iv) determining the binding of cell surface-bound or intracellularly bound analytes

to each ligand on the solid support surface.

Claim 15 (withdrawn): The method according to claim 14, wherein the cell sample contains intact cells.

Claim 16 (withdrawn): The method according to claim 14, wherein the cell sample contains cells, the membranes of which have been made permeable to ligands.

Claim 17 (withdrawn): The method according to claim 14, wherein binding to the solid support surface is detected by a label-free detection method.

Claim 18 (withdrawn): The method according to claim 17, wherein the detection method is based on mass-sensing.

Claim 19 (withdrawn): The method according to claim 18, wherein the mass sensing comprises evanescent wave sensing.

Claims 20-34 (cancelled)